USSR / Human and Animal Morphology (Normal and Pathological).
Nervous System. Central Nervous System.

S

Ats Jour : Ref Zhur - Riologiya, No 9, 1958, No. 40779

complex manner in all its parts. Argyrophil spheres are not specific for Pick's disease, and excessively swollen cells with homogenization of the protoplasm were demonstrated in all cases in the cortex as well as in the optic thalamus. It is underscored that Pick's disease represents by itself a disease of the whole B and apparently, of the whole organism. The character of the changes of the nervous cells, of the glia and particularly of the MF in the absence of patches of serile dementia and Alzheimer changes of neurofibrils, give basis to exclusion of the given illness from the group of senile psychoses. -- A. M. Vikhert

Card 2/2

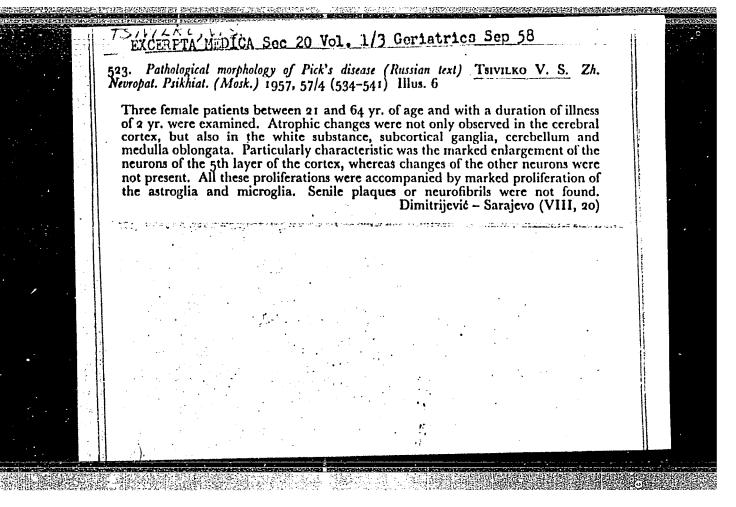
. TSIVIL'KO, V.S.

Bathomorphological data on cerebral vascular disorders in schizophrenia [with summary in French]. Zhur.nevr. i psikh. 28 no.9 1118-1129 '58 (MIRA 11:11)

1. Otdel morfologii (zav. - prof. A.P. Avtsyn) Instituta psikhiatrii (dir. - prof. V.M. Banshchikov) Ministerstva zdravookhraneniya RSFSR, Moskva.

(SCHIZOPHRENIA, pathology, cerebral vasc. lesions (Rus))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"



Role of morphological data in the diagnosis of achizophrenia [with summary in French]. Zhur.nevr. i psikh. 58 no.4:471-476 '58 (MIRA 11:5)

1. Gistopatologicheskaya laboratoriya (nauchnyy rukovoditel' - prof. P. Ye. Snesarev [decessed] Instituta psikhiatrii Ministerstva zdravookhraneniya ESFSR, Moskva.

(SCHIZOPHRENIA, pathol.

systemic histopathol., diag, value (Rus))

Pethoenatomical changes in the brain and internal organs in true
Pethoenatomical changes in the brain and internal organs in true
Premia. Zhur.nevr. i psikh. Supplement:95-96 '57. (MIRA 11:1)

1. Gistopetologicheskaya laboratoriya (zav. - prof. P.Ye.Snesarev)
Instituta psikhistrii Ministerstva zdravookhraneniya RSFSR, Moskva.

(UREMIA) (BRAIN-DISEASES) (VISCERA--DISEASES)

TSIVIL'KO, V.S.

Pathomorphology of Pick's disease [with summary in French]. Zhur. nevr.i psikh. 57 no.4:534-541 '57. (MIRA 10:7)

1. Gistopatologicheskaya laboratoriya (nauchnyy rukovoditel - prof. P.Ye.Snesarev [deceased]) Gosudarstvennogo instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR (dir. - prof. V.M.Banshchikov) (PSYCHOSES, PRESENILE, pathology.

Pick dis. (Rus))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

LAVROV. V.V.; ARKHANGEL'SKAYA-IEVINA, M.S.; FEDOROV, D.N.; IOSSET, G.Ya.; SOSNYAKOV. N.G.; BERINGER, Yu.V.; KOZACHINSKIY, R.M.; YELETSKAYA, O.I.; GOSHKINA, A.I.; MIKLASHEVSKAYA, A.V.; ZYKOV, A.A.; IEBELEV, M.F.; DERGUHOVA, K.S.; HYTSK, Z.A.; FREHKINA, D.Z.; TSIVIN, S.S.

In memory of A.M. Zabludovskii. Khirurgiia no.12:74-75 D '53.

(MIRA 7:1)

(Zabludovskii. Anton Martynovich, 1880-1953)

.

SOV/177-58-2-8/21

17(12,14)

AUTHORS:

Askalonov, I.N., Professor, and Tsivina, D.V., Candidate of Med-

ical Sciences

TITLE

Penicillin Therapy for Penetrating Gun-Shot Wounds to the Knee

Joint in an Experiment

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 2, pp 49-52 (USSR)

ABSTRACT:

In the introduction, the authors deal briefly with the use of anithiotics in the treatment of gun-shot wounds to the knee joint, and problems connected therewith. The article is devoted to the description of an experiment performed by the authors on 3 groups of mature dogs, 40 in all. Each dog received a bullet wound from a small calibre rifle in the knee joint of one hind leg. A staphylostreptococcus culture with 1 - 2 billion microbes was introduced into the wound, followed, in all but one, the control, group, by 50,000 units of penicillin in a 1/2% solution of novocain. Similar doses of antibiotics were introduced twice daily for a period of one week. The text gives detailed descriptions of the treatment given each group of dogs, both surgical and antibiotic,

card 1/2

SOV/177-58-2-8/21

Penicillin Therapy for Penetrating Gun-Shot Wounds to the Knee Joint in an Experiment

and the results of this treatment. Best results - 11 out of 14 regained full use of the joint, 2 had only slight restrictions - were obtained in group 2, which received injections of penicillin into a sealed joint cavity. Sealing of the cavity allowed the antibiotic to maintain a high degree of concentration. The authors conclude that the system of complex therapy described deserves wider use in clinical practice. The following persons are mentioned in the text: Roze, Napalkov, Mukhamedbekov, Yelanskiy, Bogatyrev, Banaytis, Yeolyan, Diterikhs, Lebedeva, Serzhanin, Stanislavskaya.

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

TSIVINA, D.V.

USSR / Pharmacology, Toxicology. Chemotherapeutic Agents.

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: Ref. Zh.-Biol., No 2, 1958, No 8132 Abs Jour

Author : Askalonov, I. N., Tsivina, D. V. grade that the land of the self of

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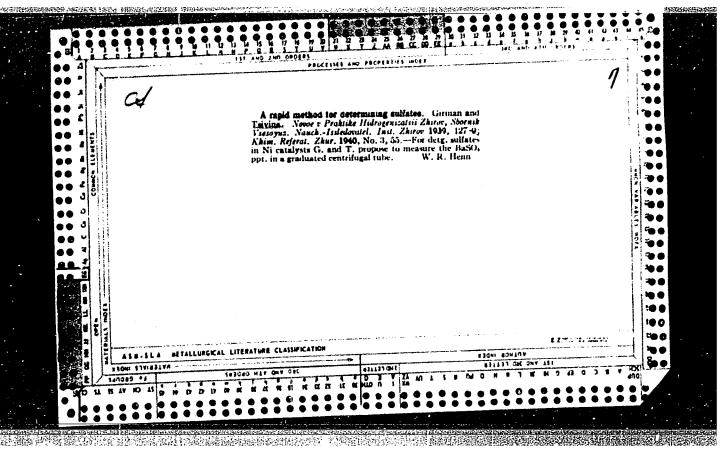
Title : An Intra-arterial Injection of Antiseptics and Antibiotics in the Treatment of Experimentally Infected Wounds in the Soft Tissues of the Extremities.

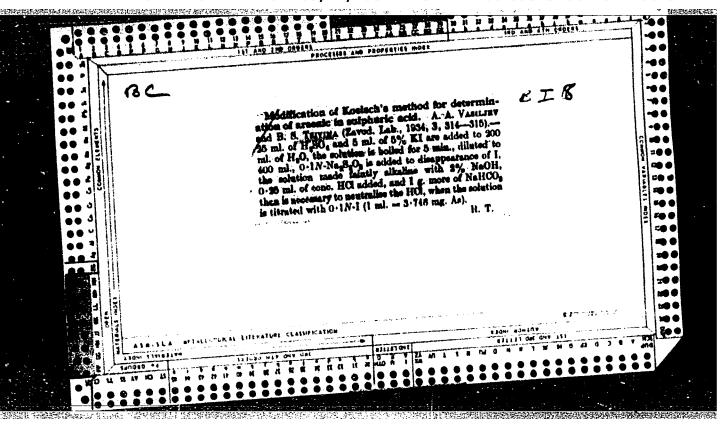
: Tr. Kuybyshevsk. Med. in-ta, 1954, 5, 236-241. Orig Pub

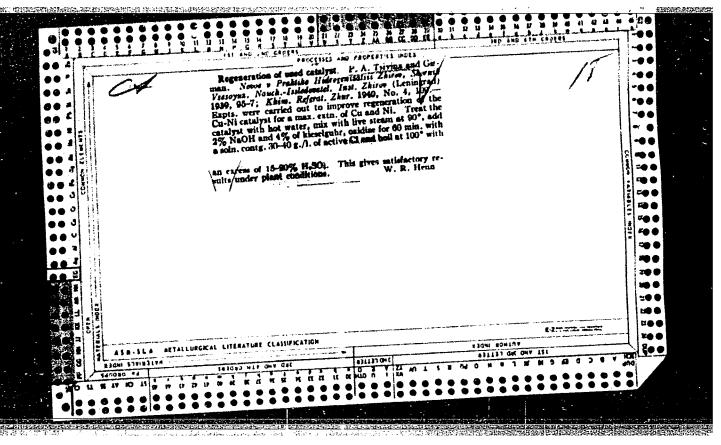
: Favorable prophylactic and therapeutic effects of intra-Abstract venous infusions of penicillin with sodium sulfathiazole and coffpenicillin with nogocaine have been demonstrated in the treatment of infected soft tissue wounds.

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> CIA-RDP86-00513R001757120013-4" **APPROVED FOR RELEASE: 03/14/2001**







CIA-RDP86-00513R001757120013-4 "APPROVED FOR RELEASE: 03/14/2001

TSIVINDO, A.Z.

USSR / Cultivated Plants. Fruits. Berries.

: Mof Zhur - Biol., Ho 8, 1958, No 34792 Abs Jour

Author

: Tsivindo, A. Z. : Institute for Agriculture, Branch of VASKHWIL : Results of Fertilization Posts with Fruit Trees Inst Titlo

in the Zone of Cultivation of Alma-Ata.

: Tr. in-ta zoml. Kazakhst. fil VASkhmil, 1956, 5, Oris Pub

95-115

: Experiments conducted by the Institute in 1933-Abstract 1954 on dark brown soils, have shown that spread-

ing of K and $P_{\mathbf{S}}$ in the form of organic mineral granules does not increase the crop, while adding of I improves the growth and increases the crop. The best effect was obtained with simultaneous

spreading of mineral and organic fortilizers at

Card 1/2

112

U332 / Cultivated Plants. Fruits Berries.

Abs Jour : Ref Zhur - Biol., No 8, 1953, No 34792

the time the fruits are picket-tied, prior to the packing of the fruit buds and in the period of increased fruit growth. The most favorable desages in young gardens are: 190, 190, 145, in fruit-bearing gardens, and 1180-240 and PK in smaller quantities. -- Fortunatov.

11

Card 2/2

ACC NR: AT6034481 SOURCE CODE: UR/0000/66/000/000/0134/0139

AUTHOR: Tsivinskiy, S. V.

ORG: Leningrad Physico-technical institute im. A. F. Ioffe (Leningradskiy fiziko-tekhnicheskiy institut)

TITLE: Growing germanium crystals by A. V. Stepanov's technique

SOURCE: Rost i nesovershenstva metallicheski kristallov (Growth and defects of metal crystals). Kiev. Naukova dumka, 1966, 134-139

TOPIC TAGS: germanium, semiconductor single crystal, single crystal growing, germanium single crystal, web crystal

ABSTRACT: A technique was described of growing germanium web single crystals by pulling from germanium melt through an immersed shot under 5—6 g/cm² pressure. Germanium web crystals up to 150 mm long were grown without adding Ge during the growth process. Stability of the growth process was achieved by the use of a special form of shot which produced a web crystal with thicker edges (fillet region). The total width and thickness of the narrow web crystals were 13 mm and 0.17—1.1 mm, respectively, and of the wide web crystals 27 mm and 0.27 mm, respectively. Some of the web crystals had a nearly mirror-bright surface. The crystals with uniform distribution of impurities and, in certain instances, with a fairly uniform dislocations' density were obtained by the technique, which is known by the name of A. V. Stepanov. Electric resistivity of a web crystal varied within ±3—15% and density Cord 1/2

ACC NR: AT6034481

of dislocations in certain web crystals varied within the limits permissible in the crystals for use in semiconductor devices. The Stepanov technique was thought to be one of the most controllable methods of growing thin, long web crystals for semiconductor devices. The production process of these devices may be simplified and its automation may be facilitated by application of the Stepanov technique. Orig. art. has: 6 figures.

SUB CODE: 11, 20/ SUBM DATE: 22Jun66/ ORIG REF: 005/ OTH REF: 002/

Card 2/2

TSIVINSKIY, S.V.; STEPANOV, A.V.

Growing germanium single crystals of a specified shape. Fiz. tver. (MIRA 18:3) tela 7 no.1:194-199 Ja '65.

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.

TSIVINSKIY, S.V.; STEPANOV, A.V.

Determination of the orientation of germanium crystals using an optical method. Zav.lab. 29 no.11:1333-1335 '63. (MIRA 16:12)

1. Leningradskiy fiziko-tekhnicheskiy institut im. A.F. Ioffe AN SSSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

ENT(1)/ENT(m)/ENP(b)/T/ENP(t) IJP(c) SOURCE CODE: UR/2564/65/006/000/0355/0359 ACC NR: AT6002271 AUTHOR: Tsivinskiy, S.V. ORG: none TITLE: Preparation of crystals by A.V. Stepanov's method. (Paper presented at the Third Conference on Crystal Growing held in Moscow from 18 to 25 November, 1963.) SOURCE: AN SSSR. Institut kristallografii. Rost kristallov, v. 6, 1965, 355-359 TOPIC TAGS: single crystal growing, germanium single crystal ABSTRACT: The method of Prof. A.V. Stepanov, used for growing single crystals and polycrystals, was applied to the growing of germanium drystals. It involves the utilization of phenomena associated with the presence of a column of melt behind a solid rod being pulled out of a liquid, and is thus a development of the Czochralski method. Germanium crystals were obtained in the form of a thin ribbon by pulling from a slit. The resistivity and dislocation density were measured along the length and width of the germanium ribbon obtained. It was found that A.V. Stepanov's method can be used to obtain germanium crystals of predetermined shape, size and crystallographic orientation. The

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ribbon crystals have uniform electric properties and in many cases a fairly uniform

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4	CC NR: AT6002271	, ;
	istribution of dislocations. The possibility of growing thin and long ribbon crystals which	
i c	n thickness and properties are similar to crystals employed in semiconductor devices implifies the process of production of such devices and facilitates its automation. In onclusion the authors thanks Prof. A.V. Stepanoy for valuable suggestions and fruitful iscussions. Orig. art. has: 7 figures.	
	UB CODE: 20 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 002	
- 1. I	물은 이 물을 이렇게 살아보면 이 수 없었다. 그는 그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	,
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VOLOKH, D.M.; TSIVINSKIY, Ye.Y. [TSyvins'kyi, IE.I] (Poltava)

Prevention and treatment of terminal states in obstetrics and gynecology. Ped., akush. i gin. 24 no.1:45-46'62.(MIRA 16:8)
(DEATH, APPARENT) (HEMORRHAGE, UTERINE)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

30V/163-59-1-49/50

CONTROL OF THE PROPERTY OF THE

18(3) AUTHORS: Natapov, B. S., Tsivirko, D. 1e., Fal'kevich, E. S.

TITLE:

Influence of Several Factors Upon the Quality of Automobile Plate (Vliyaniye razlichnykh faktorov na kachestvo avtomobil'nogo lista)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 1,

pp 254-258 (USSR)

ABSTRACT:

In order to determine the deep drawing quality of 08kp VGV steel sheet the influence of the physical and mechanical properties upon the quality of the products was investigated by making a direct study of the deep drawing process for which methods of statistical analysis were applied (Refs 1,2). This statistical analysis rested on the tests of the physical and mechanical properties of 630 lots of the steel sheet in question. The experiments were carried out in the laboratory of the Gor'kovskiy avtozavod (Gor'kiy Automobile Works). This article presents the results of the statistical analysis in a table exposing the dependence of the percentage of substandard products upon the characteristics of the metal. A linear relationship was found to exist between the amount of substandard products caused by fissures in the sheet, and the physical and mechanical properties. The information collected indicates that none of these properties exercises a dominating

Card 1/3

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Influence of Several Factors Upon the Quality of Automobile Plate

influence. A relatively insignificant interdependence between the amount of substandard products in deep drawing and the grain size of the ferrite and the inclusions containing structureless zementite was established. The low correlation coefficient is explained. The results of these investigations permit to make the statement that metallurgists should strive to produce a metal with uniform properties through one sheet and through one series and with a minimum number of cracks. As hitherto only very insufficient methods have been known of determining the yield point and the hardness the authors tried to investigate these characteristics by measuring the coercive force and thus found out that these two properties take a largely parallel course. Hence the usual measuring methods can be supplanted by a measurement of the coercive force. The mechanical properties of steel sheet can be improved by a larger grain size, by removing non-metallic inclusions, by a prevention of zementite formation and by a reduction of the sulphur content. The annealed sheets are dressed in order to improve the surface quality of automobile parts. By the specifications of the "Zaporozhstal' Works the reduction in height by dressing is set to 0.8 - 1.5 %. The investigation of the rules governing the aging of O8kp steel after deformation showed that the hardness during aging increases the

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Influence of Several Factors Upon the Quality of Automobile Plate

more, the more nitrogen is contained in the steel. An increase of the aluminum content in the steel leads to a reduction of hardness during aging. A steel which has been deoxidized by aluminum shows a tendency towards aging if it contains ample amounts of oxygen. The microscopical investigation of samples destroyed at the temperature of liquid nitrogen showed that by aging the bonds at the grain boundaries are weakened. -There are 1 table and 5 Soviet references.

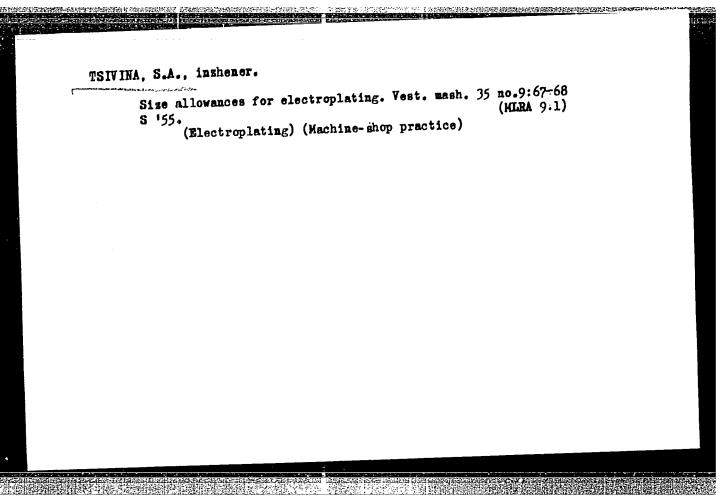
ASSOCIATION: Zaporozhskiy mashinostroitel'nyy institut (Zaporozh'ye Institute of Machine Building)

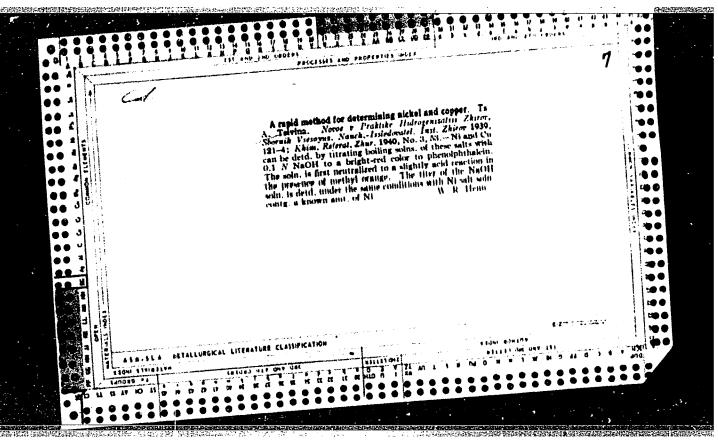
SUBMITTED:

May 4, 1958

Card 3/3

CIA-RDP86-00513R001757120013-4" APPROVED FOR RELEASE: 03/14/2001





(MIRA 11:4)

TSIV NSKIY, S.V.; KCGAN, L.I.; ENTIN, R.I., doktor tekhn.nauk

Investigating chromium and tungsten distribution during the process
of austenite dissociation using the radioactive isotope method. Probl.

metalloved. i fiz. met. no.4:277-295 '55.
(Steel alloys--Metallography) (Austenite)
(Radioisotopes--Industrial applications)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

STEPANOV, A. V.; TSIVINSKIY, S. V.

Production and properties of germanium dendritic crystals. Fiz. tver. tela 5 no.1:81-90 Ja 163. (MIRA 16:1)

1. Fiziko-tekhnicheskiy institut imeni A. F. Ioffe AN SSSR, Leningrad.

(Germanium crystals)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

TSIVINSKIY, S.V.

Using the capillary phenomena theory in manufacturing articles with a predetermined shape directly from the melt by A.V.Stepanov's method. Inzh.-fiz.zhur. 5 no.9:59-65 S 162. (MIRA 15:8)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad. (Capillarity) (Founding)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

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CIA-RDP86-00513R001757120013-4

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s/181/63/005/001/013/064 B102/B186

Stepanov, A. V., and Tsivinskiy, S. V.

AUTHORS:

Production and properties of germanium dendrite crystals

TITLE:

Fizika tverdogo tela, v. 5, no. 1, 1963, 81-90

TEXT: The possibility, which now exists, of building up complete radio circuits from small semiconductor crystals of different shapes and PERIODICAL: different orientations, and even of automating this production (Westinghouse Engineer, 19, 4,113,1959), lends great importance to the production of suitable crystals. Only two methods have hitherto been known: that of A.V. Stepanov (ZhTF,29,3,381,1959; 3,394,1959) and the method of dendrite crystallization developed in the U.S.A. This method has not hitherto been examined thoroughly as regards how production conditions affect the crystal properties. The factors influencing the shape, the electrical properties, and the dislocation distribution in dendrites are studied here. The dendrites were pulled from a melt in a crucible placed at the bottom of a quartz container, the crucible being constructed as an electric resistance furnace. The pressure in the

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APPROVED FOR RELEASE: 03/14/2001

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Production and properties of ...

quartz container was 10^{-4} -2·10⁻⁵mm Hg. After germanium had been melted it was overheated by 6-140C, the furnace was then switched off and cooled at a rate of 1.2 - 1.6° C/sec. Until the pulling was begun the rate was 0.4 - 0.80C/sec. The following factors and their effects on the crystallization were studied: shape of the crucible (effect on the form of the dendrites; formation of side branches); material of the crucible (effect on the type of growth, formation of side branches and nucleation probability); amount of germanium in the crucible (effect on the number of dendrites per seed), effect of overheating after melting (strong overheating (45-85°C) leads to dendrite crystallization if the melt is undercooled about 5°C lower than after minor overheatings (6-14°)); temperature of the introduction of the seed into the melt (this temperature should be somewhat lower than the melting temperature, otherwise polyhedra will be formed or formation of dendrite will be uncontrollable; degree of undercooling before dendrite pulling (strong undercooling (30°C) gives thick (0.9-1.5 mm) dendrites with poor faces; undercooling of 15-17° gives thin (0.2-0.35 mm) dendrites with good faces); temperature change of the melt during the crystal growth (effect on the constancy of the dimensions and the uniformity of the electrical properties). The Card 2/3

Production and properties of ...

\$/181/63/005/001/013/064 B102/B186

following electrical properties were studied: resistivity distribution, minority carrier diffusion length (1), longitudinal dislocation density, . Germanium of the brand 「う人C (GELS) 40/2.5 and 3/0.7 was used as starting material. All dendrites studied showed strongly inhomogeneous characteristics; o and ld, measured along the dendrite, showed a zig-zag course. The temperature of the melt influences not only the dendrite diameter but also Q; changes of ×0.10C change Q by some ohm.cm. The dislocation densities were 10 cm -2 or more; these also changed along the dendrites with strong fluctuations (1 to 4 orders of magnitude).

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A.F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute imeni A.F. Ioffe AS

SUBMITTED:

July 19, 1962

Card 3/3

EWT(m)/EP(t)/ETI/EP(k) L 06429-67 WP(c) JD/WW/HM/JG ACC NR: AP6026704 SCURCE CODE: UR/0181/66/008/008/2461/2462 AUTHOR: Tsivinskiy, S. V.; Koptev, Yu. I.; Stepanov, A. V. ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR) TITIE: Growing of germanium tubes SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2460-2461 TOPIC TAGS: crystal growing, germanium single crystal ABSTRACT: The method used for growing thin-walled germanium tubes is a modification of one described earlier by A. V. Stepanov (Budushcheye metalloobrabotki. Ienizdat, 1963). The seed (tungsten foil rolled into a tube and wetted by germanium) is immersed in molten germanium, then gradually pulled out of it (at a pulling rate of 60 mm/hr). Thanks to surface tension forces, a thin-walled tube builds up behind the seed. The temperature conditions are chosen such that the crystallization front is located slightly (1 mm) above the upper end of the rod. Thus, during the pulling, crystallization begins under conditions where thin-walled tubes about a cm in diameter can be grown onto the seed. In the cross section, one single-crystal grain frequently predominates over other single-crystal grains by displacing them during growth. In good specimens, the thickness of the tubes was 0.20±0.3 mm. The length (90-100 mm) was determined by the performance of the pulling mechanism. Orig. art. has: 2 figures. SUB CODE: 20 / SUBM DATE: 25 Janub / ORIG REF: 002

ALL PRINCH VICE

Category: USSR/Solid State Physics - Phase Transformation in E-5

Solid Bodies

Abs Jour: Ref Zhur - Fizika, No 3, 1957, No 6617

Author : Tsivinskiy, S.V., Kogen, L.I., Entin, R.I.

Title : Redioactive Trecor Investigation of the Distribution of

Chromium and Tungsten During the Frocess of Austenite Decay

Orig Fub: Probl. metalloved. i fiz. metallov, sb. 4, 1955, 277-295

Abstract: The method of radicactive isotopes was used to determine the contents of Cr and V in the carbide phase in steels with 1.18% C and 2.42% Cr and with 1.02% C and 0.78% W respectively in the process of transformation of austenite at the temperatures of the pearlite and intermediate regions. In the Frocess of decomposition in the pearlite region, the contents of the alloying elements in the carbides exceed their contents in steel by a factor of 3 -- 5 times. The results obtained prove that the decomposition of the austenite in the pearlite region is connected with the need for diffusion radistribution of the tungsten. It is shown that rate of secondary diffusion

Cerd : 1/2

Category: USSR/Solid State Fhysics - Pheso Transformation in Solid Bodies

E-5

Abs Jour : Ref Zhur - Fizike, No 3, 1957, No 6617

is weak during the process of decomposition end for some time after the decomposition. In the other hand, prolonged soaking efter the decomposition leads to a substantial diffusion redistribution of the alloying elements in the decomposition products. The decomposition of austenite in the middle region takes place without any noticeable diffusion redistribution of the alloying elements in the austenite. The need for diffusion redistribution of the alloying in elements in austenite causes a considerable reduction in the speed of decomposition in the pearlite region.

Card : 2/2

TOLVINSKIY, S. V.

Category: USSR/Solid State Physics - Phase Transformation in E-5

Solid Bodies

Abs Jour : Ref Zhur - Fizike, No 3, 1957, No 6617

Author : Tsivinskiy, S.V., Kogen, L.I., Entin, R.I.

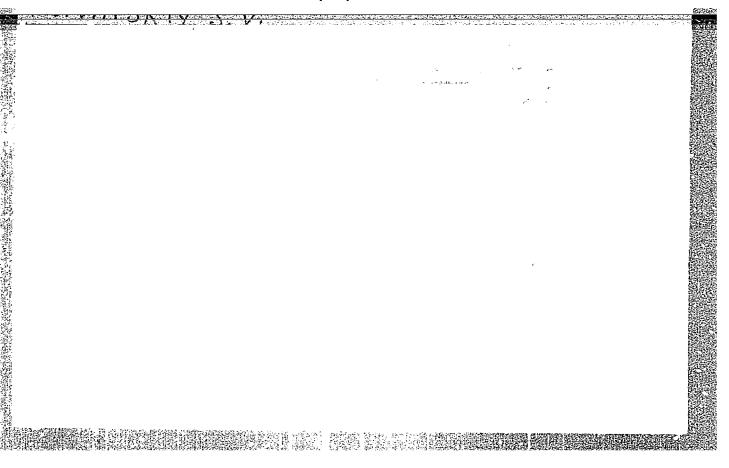
Redioactive Tracer Investigation of the Distribution of Title

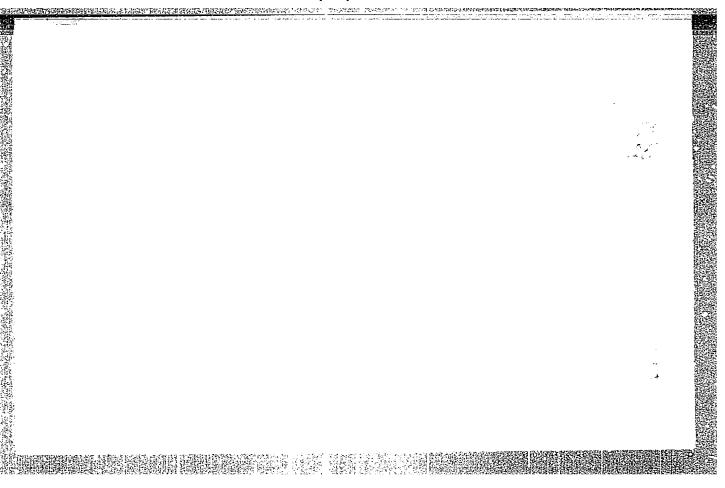
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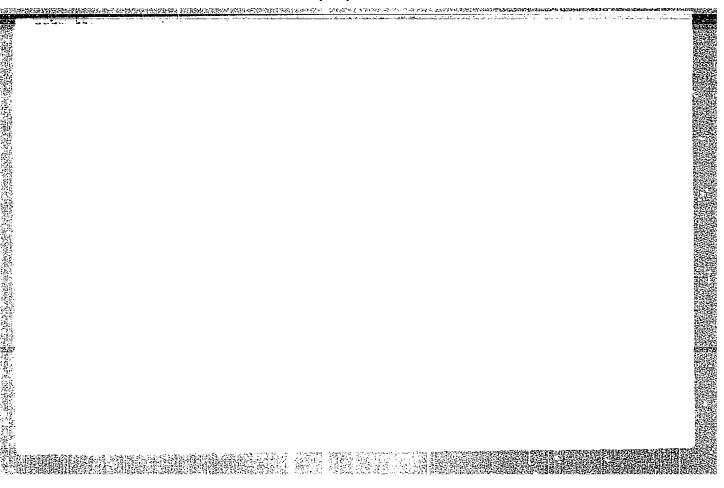
Orig Fub: Frobl. metalloved. i fiz. metallov, sb. 4, 1955, 277-295

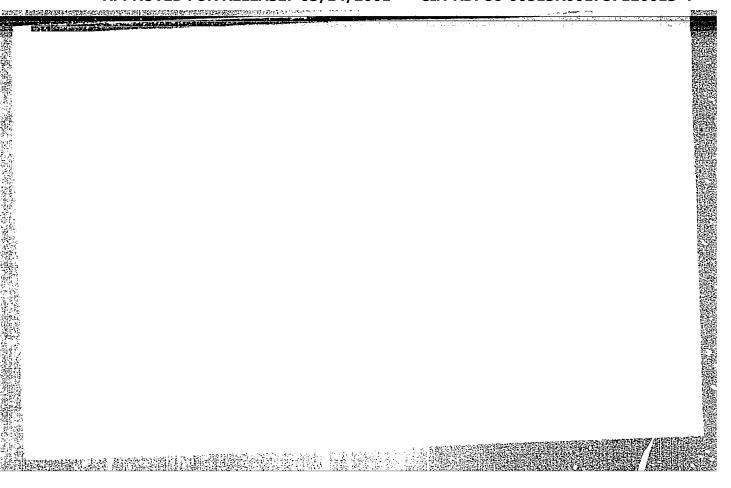
Abstract: The method of radioactive isotopes was used to determine the contents of Cr and 7 in the carbide phase in steels with 1.18% C and 2.42% Cr and with 1.02% C and 0.78% W respectively in the process of transformation of austonite at the temperatures of the pearlite and intermediate regions. In the Frocess of decomposition in the possilite region, the contents of the elloying elements in the carbides exceed their contents in steel by a factor of 3 -- 5 times. The results obtained prove that the desemposition of the austonite in the pearlite region is connected with the need for diffusion redistribution of the tungeten. It is shown that rate of secondary diffusion

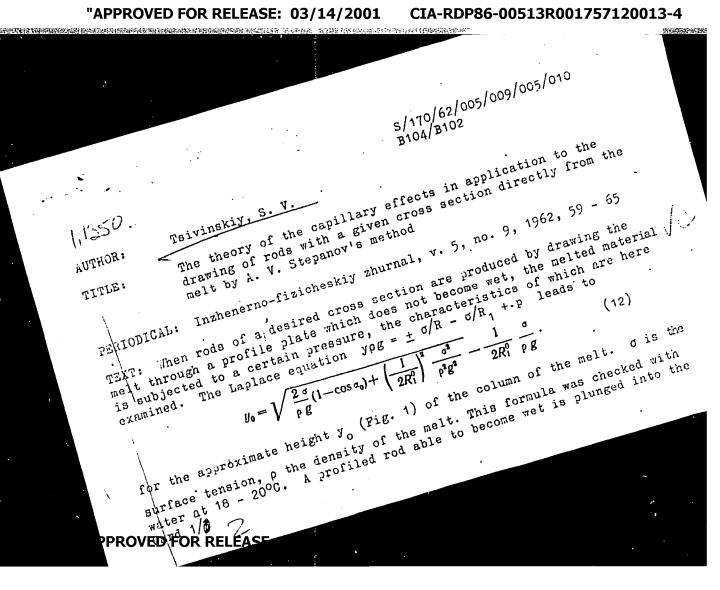
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The theory of the capillary ...

S/170/62/005/009/005/010 B104/B102

free surface of the profile plate and then slowly removed. y_{o} can be calculated with satisfactory accuracy under different experimental conditions. There are 4 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut imeni A. F. Ioffe AN SSSR, g. Leningrad (Physicotechnical Institute imeni A. F. Ioffe AS USSR, Leningrad)

SUBMITTED: January 25, 1962

Fig. 1. Shapes of the melt column. Legend: (1) piece (crystal); (2) liquid column; (3) plate with profile opening.

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CIA-RDP86-00513R001757120013-4

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I 45246-56 EVIT(m)/EVIP(K)/1/GIT(VI)	SOURCE CODE: UR/0303/00/002/00/
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a st. Stangage. A.	

AUTHOR: Tsivinskiy, S. V.; Stepanov, A. V.

ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences, SSSR (Fizikotekhnicheskiy institut Akademii nauk SSSR)

TITIE: Possibility of controlling the distribution of impurities in the preparation of crystals of predetermined shape

SOURCE: AN SSSR. Izv. Neorg materialy, v. 2, no. 7, 1966, 1177-1179

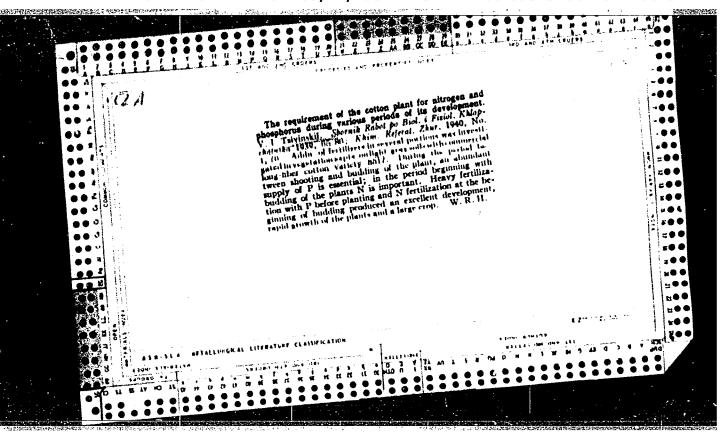
TOPIC TAGS: crystal growing, semiconductor crystal, crystal impurity, pn junction

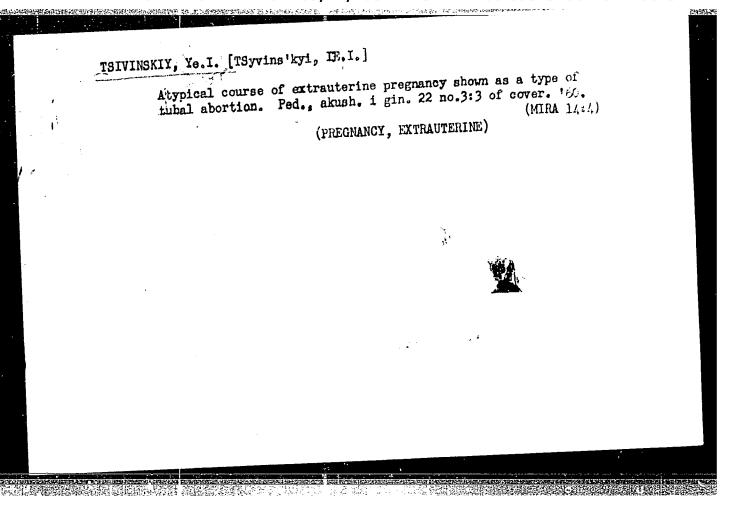
ABSTRACT: The distribution of impurities in crystals of predetermined shape grown by the method of A. V. Stepanov was studied on the basis of the theory proposed by J. A. Burton, R. C. Prim, and W. P. Slichter (J. Chem. Phys. 21, 1987, 1953). It is shown that when a crystal is pulled from a narrow slit or a round hole of small diameter, the impurity becomes evenly distributed throughout the crystal if the crystallization front is flat and if its position with respect to the height in the slit and the pulling rate are constant. When the slit or hole is deep, the concentration of the impurity in the crystal is equal to the concentration in the melt in the crucible. By varying the position of the crystallization front with respect to the height, its form, and the pulling rate, one can obtain a predetermined nonuniform distribution of the impurity. In the growing of semiconductor crystals, if the melt contains two im-

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Pulling	crysta	ls from a mel	t/8			ı		
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ALABUZHEV, P.M., doktor tekhn. nauk; ZUYEV, A.K., assistent; KUZ MENKO, Yu.P., assistent; TSIVINSKIY, Yu.P., aspirant

Investigating the performance of an electromechanical spike driver. Izv. vys. ucheb. zav.; mashinostr. no.2: (MIRA 16:8)

1. Novosibirskiy elektrotekhnicheskiy institut.

ALABUZHEV, P.M., prof.; VIL'NIT, L.N., starshiy prepodavatel';
KOPEYKIN, G.F., starshiy prepodavatel'; TSIVINSKIY, Yu.P., inzh.

Movement of the striker and body of an electromechanical
hammer drill with a striker-restraining mechanism. Izv. vys.
ucheb. Zev.; gor. zhur. no.6:74-80 '61. (MIRA 16:7)

1. Novosibirskiy elektrotekhnicheskiy institut. Rekomendovana
kafedroy mekhaniki.

(Boring machinery)

TSIVIRAS, P.

ZIVIRAS, P., doc.; LUNECKAITE, B., asist.

On the problem of the pathogenesis and therapy of chronic enterocolitis. Sveik. apsaug. 8 no.1:16-21 Ja:63.

1. Vilniaus Valst. V.Kapsuko v. universiteto Medicinos fakulteto infekciniu ligu katedra. Katedros vedejas - doc. P.Cibiras.

*

YUDOVICH, S.Z.; ROGOZA, G.D.; TSIVIRKO, D.Ye.

"Metal for sheet-metal work" by V.P.Severdenko, S.A.Pasechnyi.

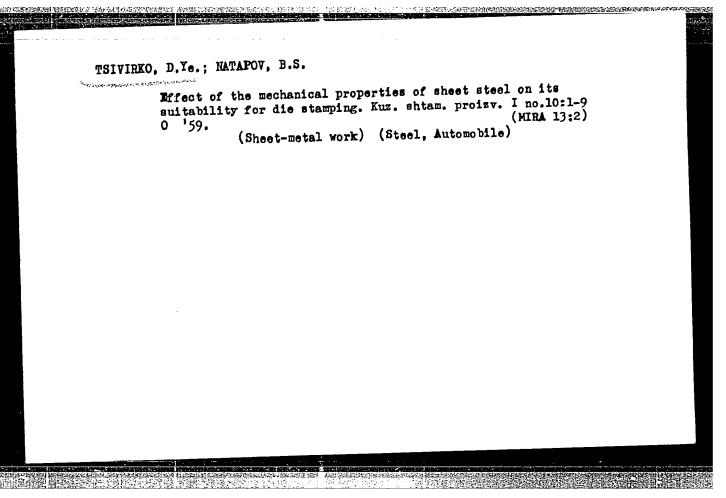
Reviewed by S.Z.IUdovich, G.D.Rogoza, D.E.TSivirko. Kuz.-shtam.

Reviewed by S.Z.IUdovich, G.D.Rogoza, D.E.TSivirko. (MIRA 15:12)

proizv. 4 no.10:47 0 '62.

(Sheet steel)

(Severdenko, V.P.) (Pasechnyi, S.A.)



NATAPOV, B.S.; TSIVIRKO, D.Ye; FAL'KEVICH, E.S.

Effect of various factors on the quality of automobile body sheet steel. Nauch.dokl.vys.shkoly; met. no.1:254-258 '59.

(MIRA 12:5)

1. Zaporozhskiy mashinostroitel'nyy institut. (Steel, Automobile--Testing)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

Sov/133/58-9-20/29

AUTHORS: Natapov, B. S. and Tsivirko, D. Ye.

TITLE: The Influence of Structure and Mechanical Properties of Steel O8kp on Its Stamping Ability (Vliyaniye struktury i mekhanicheskikh svoystv stali O8kp na yeye shtampuyemost')

PERIODICAL: Stal', 1958, Nr 9, pp 828-834 (USSR)

ABSTRACT: The investigation of the above problem was carried out in order to establish the relationship between the results of testing under laboratory conditions of physico-mechanical properties and micro structure of sheet steel 08kp and its actual behaviour during the stamping process. A statistical analysis of defective stampings of parts of motorcar bodies (at the Gor'kiy Automobile Plant) due to tearing was made and correlated with properties of metal. Correlation coefficients of a number of defects during stamping with physico-mechanical properties of steel -Table 1 and Fig.1; the influence of the initial mechanical properties of steel on the number of defective stampings - Table 2, and the chemical composition of respective metal deliveries in the ladle and in sheets - Table 3; frequency of distribution of mechanical properties of the individual deliveries of sheets - Fig.2; the comparison of the proportion of defects during stamping Card 1/4 with mechanical properties of metal - Table 4; frequency

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Sov/133/58-9-20/29

The Influence of Structure and Mechanical Properties of Steel O8kp on Its Stamping Ability

distribution of the degree of deformation for sheets of the same thickness - Fig.3. It is concluded that: 1) Under correct technological conditions of stamping parts of motor car bodies the proportion of rejects caused by faults in the car bodies the proportion of the total and due to deformation metal amounted to 70-80% of the total and due to deformation 20-30% (mainly due to incorrect pressing technology). 2) One of the main causes of tearing due to faults in the metal are of the main causes of tearing deviations of mechanical laminations as well as the following deviations of mechanical properties from optimum values: a) increased toughness of properties from optimum values: a) increased toughness of $\sigma_{\rm S}/\sigma_{\rm B} > 0.75$, $\sigma_{\rm B}$

b) a considerable proportion of sheets with a lowered plasticity ($\delta \lesssim 38$). 3) As the basic characteristics of plasticity ($\delta \lesssim 38$). 3) As the basic characteristics of the ability of Ookp steel to deep drawing the following should the ability of Ookp steel to deep drawing the following should the ability of ookp steel to deep drawing the following should be considered: relative elongation, coefficient of work hardening or the ratio of $\sigma_{\rm g}/\sigma_{\rm B}$ and absence of coarse laminatening or the ratio of $\sigma_{\rm g}/\sigma_{\rm B}$

ions in zones of maximum deformations (at the size grain 6.6-7.7 and 8 and any combinations of the above sizes; round

Card 2/4

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sov/133/58-9-20/29

The Influence of Structure and Mechanical Properties of Steel O8kp on Its Stamping Ability

cementite inclusions of the size 1-5 are permissible).

4) Grading of rejects on works according to tears during stamping should be carried out after an investigation of fractures in the zone of dangerous deformation and according to additional mechanical tests of sheets before stamping. to additional mechanical tests of mechanical properties 5) Limiting permissible indices of mechanical properties for each part, difficult to stamp, should be established by for each part, difficult to stamp, should be established by a cooperative investigation of metallurgical and motor car a cooperative investigation of stability of the technological works. 6) For the control of stability of the tests or process of production of sheet steel tensile tests or according to Eriksen and hardness tests. 7) In order to according to Eriksen and hardness tests. 7) In order to improve stamping ability of sheet steel it will be advantaging rows to decrease the yield point (ratio of os/ob) to increase the relative elongation, to secure freedom from laminations

Card 3/4

SOV/133/58-9-20/29

The Influence of Structure and Mechanical Properties of Steel OSkp on Its Stamping Ability

and to increase the uniformity of sheets in a delivery. There are 4 tables, 3 figures and 12 references, of which 9 are Soviet and 3 English.

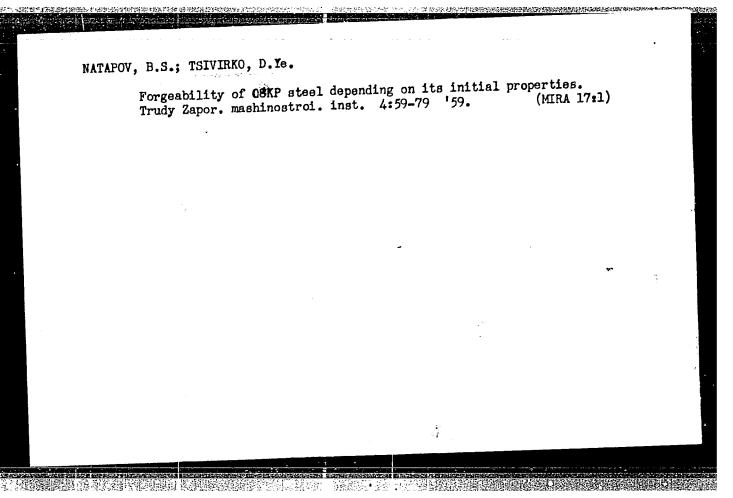
ASSOCIATION: Zaporozhskiy : mashinostroitel'nyy institut (Zaporozh'ye Machine Building Institute)

Card 4/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

NATAPOV, B.S.; VOLOSHCHUK, M.D.; LEVCHENKO, T.V.; TSIVIRKO, D.Ye.

Dependence between the mechanical properties and the aicrostructure of 08KP steel. Trudy Zapor. mashinostroff inst. 4:45-58 '59. (MIRA 17:1)



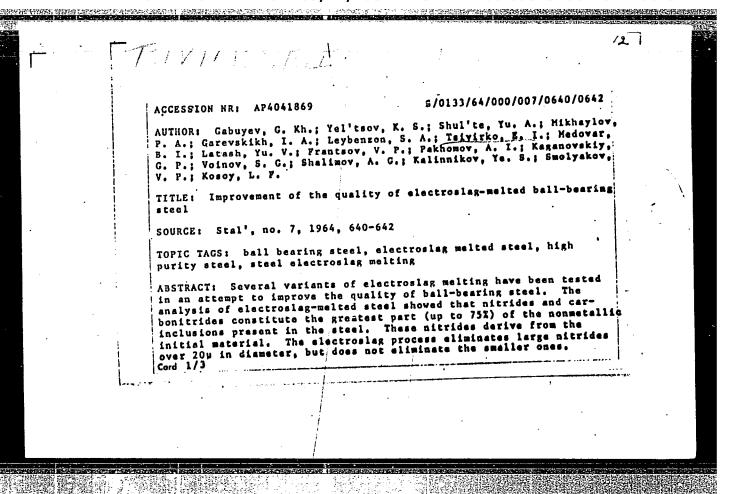
NATAPOV, B.S.; BARZIY, V.K.; OL'SHANETSKIY, V.Ye.; Prinimali uchastiye: FILONOV, V.A., inzh.; YUDIN, M.I., inzh.; IOFFE, M.M., inzh.; POPOV, S.M., inzh.; RYBALKO, G.I., inzh.; ODINETS, L.I., inzh.; SIGALKO, F.V., inzh.; TSIVIRKO, D.Ye.; VOLOSHCHUK, M.D., inzh.

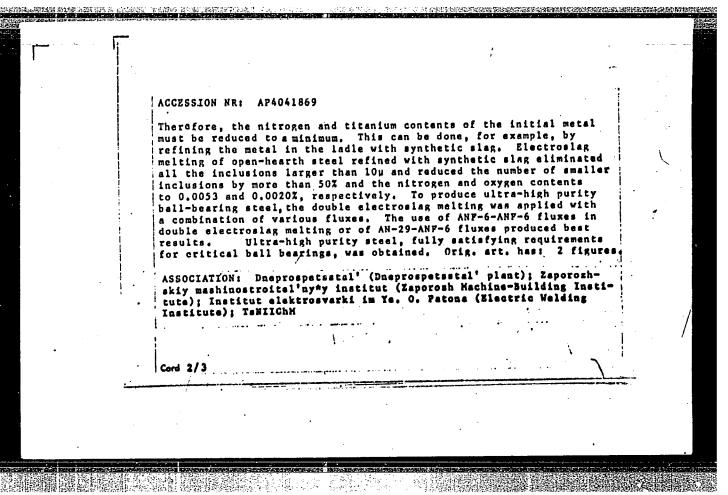
Heat treatment of cold-rolled sheet metal. Stal: 22 no.2:163-(MIRA 15:2)

GABUYEV, G.Kh.; YEL'TSOV, K.S.; SHUL'TE, Yu.A.; MIKHAYLOV, P.A.; GAREVSKIKH, I.A.; LEYBENZON, S.A.; TSIVIBKO, E.L.; MEDOVAR, B.I.; LATASH, Yu.V.; FRANTSOV, V.P.; PAKHOMOV, A.I.; KAGANOVSKIY, G.P.; VOINOV, S.G.; SHALIMOV, A.G.; KALINNIKOV, Ye.S.; SMOLYAKOV, V.P.; KOSOY, L.F.

Improving the quality of electric-slag-refined bearing steel. Stal¹ 24 no.7:640-642 Jl ¹64. (MIRA 18:1)

1. Zavod "Dneprospetsstal", Zaporozhskiy mashinostroitel'nyy institut, Institut elektrosvarki im. Ye.O.Patona i TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P.Bardina.





SMOLYAKOV, V.F.; SHUL'TE, Yu.A.; MEDOVAR, B.I.; GAREVSKIKH, I.A.;
LATASH, Yu.V.; TSIVIRKO, E.I.; ZABALUYEV, Yu.I.; TOPCHIY, S.F.

Nonmetallic inclusions in electric slag refined 12Kh2N4A
structural steel. Met. i gornorud. prom. no.4:35-37 Jl-Ag '64.

(MIRA 18:7)

KHUDYAKOVA, E.; TSIVIRKO, G.F.

Photography and cinematography serve nature. Priroda 49

mo.11:123 N '60.

(MIRA 13:11)

1. Gosudarstvennyy istoricheskiy arkhiv, Leningrad (for Khudyakova). 2. Leningradskiy Dom rabotnikov prosveshcheniya (for TSivirko).

(Nature photography)

VOLOSCV, David Samuilovich; #SIVKIN, Mikhail Vul'fovich, dotsent; PANFILOV, N.D., red.; MALEK, Z.N., tekim.red.

[Theory and design of optical systems for projection equipment]
Teorila i raschet svetoopticheskikh sistem proektsionnykh priborov. Moskva, Gos.izd-vo "Iskusstvo," 1960. 525 p.

(MIRA 13:12

1. Rukovoditel laboratorii Gosudarstvennogo opticheskogo instituta im. S.I. Vavilova i kafedry fiziki i optiki Leningradskogo instituta kinoinzhenerov (for Volosov).

(Optics) (Projectors)

BARBANEL, Simon Refeilovich; BARBANKL, Solomon Refeilovich; KOROLEV,
Nikolay Mikhaylovich; SOLOMONIK, Aron Vul'fovich; TSIVKIN, Mikhail
Vul'fovich; PROVORNOV, S.M., kand.tekhn.nauk, red.; EYSTMONT, L.O.,
red.; MALEK, Z.N., tekhn.red.

[Motion-picture projection] Kinoproektsionnaia tekhnika. Pod obshohei red. S.M.Provornova. Moskva, Gos.izd-vo "Iskusstvo." (MIRA 12:3) 1958. 517 p. (Motion-picture projection)

TSIVKIN, M.V.

Study of the light characteristics of vision zones of the Study of the light characteristics of vision zones of the Study of the light characteristics of vision zones of the Study of the light characteristics of vision zones of the Study of the Study of the light characteristics of vision zones of the Study of the light characteristics of vision zones of the Study of the Study

One-film polarized systems of stereoscopic cinematography.
Zhur.nauch.i prikl.fot.i kin. 2 no.2:130-135 Mr-Ap '57.
(MLRA 10:5)

1.Leningradskiy institut kinoinzhenerov.
(Motion pictures, Three-dimensional)

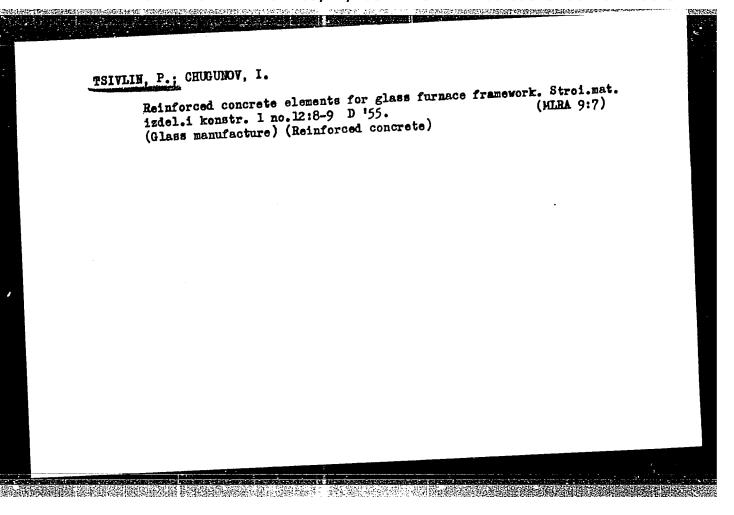
PROVORNOV, S.M.; TSIVKIN, M.V.

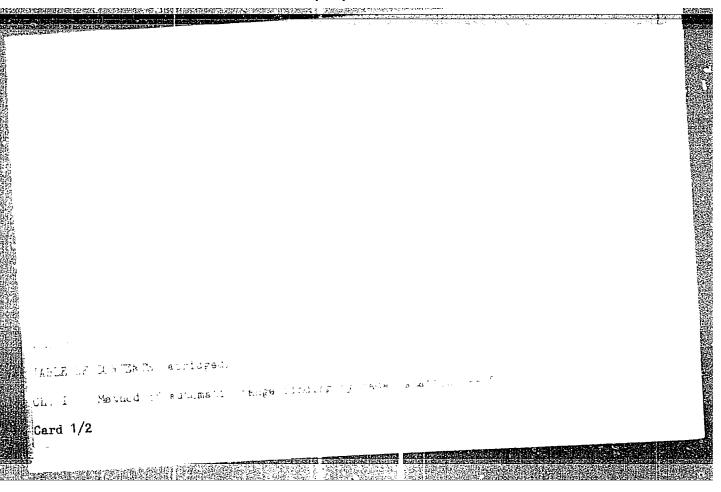
WATER ACCURATE STREET, STREET,

Experimental investigation of the effect of light dispersed by a stereoscopic screen on the separation and contrast of the images resulting from double projection. Trudy LIKI no.3:93-101 '55. (MLRA 9:8)

1. Kafedra kinoapparatury i optiki.
(Motion pictures, Three-dimensional)

Determining the optimum parameters of conical lenses of a raster for stereoscopic motion-picture projection. Trudy LIKI no.3: (MLRA 9:8) 1. Kafedra fisiki i optiki. (Optics, Geometrical) (Motion-picture projection)





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	AUTHOR: Vinnikova, T. L.; Tsivtsivadze, M. M.; Cherevko, T. N. ORG: Institute of Terrestrial Magnetism, the Ionosphere and Radio Wave Propagation, AN SSSR (Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR) AN SSSR (Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln and single method	
	AN SSSR (Institut Zemnogo magnetization)	
	SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 9, 1700, 770	
	ABSTRACT: The accumulation of much experimental computers for its analysis. field makes necessary the use of electronic computers for its analysis. This brief paper describes a group of programs which has been developed. This brief paper describes a group of programs which has been developed. This brief paper describes a group of programs which has been developed. This brief paper describes a group of programs for different heights the spherical analysis method. Using the programs for different heights the spherical analysis method. Using the programs for different heights the spherical analysis method. Using the programs for different heights the spherical analysis method. Using the programs for different heights the spherical analysis method. Using the programs for different heights the spherical analysis method. Using the programs for different heights the spherical analysis method. Using the programs for different heights the spherical gradients of the spherical gradients of the spherical gradients of the spherical gradients of the spherical gradients. The computed field for the total vector of the observed field, Tcom — the computed field) for the total vector of the observed field, Tcom — the computed field) for the total vector of the observed field, Tcom — the computed field) for the total vector of the observed field onto a sphere of stipulated radius. The authors thank N. P. Ben'kovaya and L. O. Tyurminaya for setting up the problem of the program of the program of the property of t	
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Sanadze,	Mfe	ct of	TSIVTSIVADZE, T.A. of small concentrations of cotalt on self-diffusion. s.ucheb.zav.;fiz. no.2:206-209 '60. (Cobalt) (Tron)		ffusion (MIRA	fusion of iron. (MIRA 13:8)						
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SANADZE, V. V.; TSIVTSIVADZE, T. A.; TATRISHVILI, K. G.

Effect of weak concentrations of zirconium, niobium, and molybdenum on the self-diffusion of iron. Izv. vys. ucheb. zav.; fiz. no.6:38-43 62. (MIRA 16:1)

1. Gruzinskiy politekhnicheskiy institut imeni Lenina.

(Iron-niobium-zirconium alloys) (Iron-molybjenum alloys) (Diffusion)

KAMAY, Gil'm; TSIVUNIN, V.S.; PAPINA, L.A.

Some esters of ethyl-6/-bromovinylphosphinic acid. Trudy KKHTI
(MIRA 16:10)
no.30:11-17 '62.

TSIVUNIN, V.S.; KAMAY, G.Kh.; KHISAMUTDINOVA, R.Sh.; SMIRNOV, Ye.M.

Some derivatives of phenyl-B-chlorovinylphosphinic enid. Zhur.
ob. khim. 35 no.7:1231-1233 J1 '65. (Mira 12.2)

TSIVUNIN, V.S.; KAMAY, Gil'm; SHAGIDULLIN, R.R.; KHISAMUTDINOVA, R.Sh.

Reaction of the condensation of diethylchlorophosphine with a-chloroethylalkyl ethers. Zhur. ob. khim. 35 no.7:1234-1238 Jl '65. (MIRA 18:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

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EWI(m)/EWP(j) SOURCE CODE: UR/0079/65/035/010/1817/1819 ACC NR: AP5025129 33 AUTHOR: Kamay, Gil'm; Tsivunin, V. S.; Nurtdinov, S. Kh. ORG: None TITLE: On obtaining dichloro anhydride of Beta, Beta-dimethyl-vinylphosphonic acid and some of its derivatives SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1817-1819 organic TOPIC TAGS: Aphosphorus compound, phosphorus chloride, phosphorus, hydrocarbon, antimony, nonmetallic organic derivative, est er, phosphonic acid
ABSTRACT: It was indicated that in the case of decomposition of the phosphorus pentachloride complex/with unsaturated hydrocarbons by elementary phosphorus (white) it was possible to obtain acid' chlorides of phosphonous acids. The complex (RPCI₃) (AICI₄) was reduced by antimony. The product of the reaction of isobutylene with phosphorus pentachloride can be decomposed by antimony. Derivatives are obtained from the latter: diethyl ester of \$\beta, \beta-dimethylvinylphosphonic acid, diethyl ester of A, A-dimethylvinylthiophosphonic, ethyl ester UDC: 546.185.131+547. 538:547.26'118 Card 1/2

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507/169-59-3-2941

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 3, p 131 (USSR)

AUTHOR:

Tsiyun, T.A.

TITLE:

The Solar Battery

PERIODICAL: Tr. <u>Sektsii provodn. svyazi. Ukr. resp. pravl. Nauchno-tekhn.</u> o-va radiotekhn. i elektrosvyazi, 1958, Nr 3, pp 118 - 125

ABSTRACT:

This is a review.

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

TSIV	VKIN, M.V.
	Optical properties of the commentated light beam path. Trudy NATA 18:20 no.11:53-64 164.
	l. Kafedra fiziki i optiki Leningradskogo institutz kincanzhenarov.

ACC NR: AP7012440 SOURCE

SOURCE CODE: UR/0413/66/000/018/0040/0040

AUTHOR: Tsivunin, V. S.; Kamay, G. Kh.; Kormachev, V. V.

ORG: none

TITLE: Method for preparing phosphorylated cyclohexenemethanals. Class 12, No. 185909 Announced by Kazan Chemical Technological Institute im. S. M. Kiroy

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 18, 1966, 40

TOPIC TAGS: cyclohexane, methanol, isoprene, phosphorylation

SUB CODE: 07

ABSTRACT: A method is claimed for the preparation of phosphorylated cyclohexenemethanals in which o,o-dialkylphosphonyldialkyl-acrylacetals are treated with isoprene in the presence of an equimolecular quantity of water and traces of hydrogen chloride with heating. [JPRS: 40,422]

Card 1/1

UDC: 547.594.1'241.07

932 1392

SOURCE CODE: UR/0079/66/036/008/1430/1433 ACC NR. AP6028899 AUTHOR: Tsivunin, V. S.; Kamay, G. Kh.; Kormachev, V. V.; Ukader, G. S. ORG: Kazan Chemical Technology Institute im. S. M. Kirov (Kazanskiy khimikotekhnologicheskiy institut) TITLE: Reactions of dialkylchlorophosphine with dibromoalkanes and bis(chloromethyl) ester SOURCE: Zhurnal obshchey khimii, v. 36, no. 8, 1966, 1430-1433 brominated organic compound,
TOPIC TAGS: dialkylchlorophosphine, dibromoalkane, alkyldiphosphine dithioxide,
chlorinated organic compound, organic phosphorus compound, alkylphosphine, alkane, The addition of (C2H5)2PC1 to 1,2-dibromethane, 1,3-dibromopropane, and bis(chloromethyl) ether was studied under various conditions and ABSTRACT: with various reagent ratios. It is shown that on boiling (on a water bath), dibromoethane and bis(chloromethy1) ether add mainly two molecules of $(C_2H_5)_2PC1$ to form the corresponding adducts. At 100-129°C, 1,3-dibromopropane adds one or two molecules of (C2H5)2PC1 to form the corresponding mono- or diadducts. Decomposition of the adducts with alcohols, water, or H₂S yielded the coresponding compounds Ia (bp 180°C, d₄²⁰ 1.1164, n₀²⁰ 1.4919), Ib (bp 199-200°C), 5/46.181.1+547.412 UDC: Card 1/2

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Committee Commit	
TIME: Reaction of alexhylch	lorophosphine with derivatives of acrylic and methodrylic
MCMICA: Martina obolicacy kbi	mii, v. 36, no. 7, 1966, 1223-1226
GOALO TAGE: Opentromoner, al	kylphosphine, norylle, methacrylle acid /UR-10 spectrometer
and methodrylic acid was studed anylic and methodrylic acids the adducts with alcohole, we distribute the acids with alcohole, we distribute the acids methyle acts - distributed along the arburyl carbon atom. The interest structures. The authorout the spectral analyses on LUPRS: 38,9701	ethylchlorophosphine with derivatives of acrylic lied. The reaction of diethylchlorophosphine with and their chlorides, followed by decomposition of as found to lead to the corresponding esters of lies (beta-diethylphosphonepropionic and alphapropionic, respectively). The complex formation is pi-pi conjugated system, rather than at the afrared spectra of the reaction products confirm as thank R. B. Nigmatullin and E. R. Unanov for carrying the spectrometer UR-10. Orig. art. has: I table.
SUB CODE: O7 / SUBM DATE:	09Apr65 / CRIG REF: 003

Interaction of secondary chlorophosphines with containing ethers and sulfides. Zhur.ob.khim. (Mina 19:1)
2192 D '65.

1. Submitted January 1, 1965.

SOURCE CODE: UR/0079/66/036/003/0436/0442 EWT(m)/EWP(j) 31802-66 33 ACC NR: AP6021669 B

AUTHOR: Tsivunin, V. S.; Kamay, G. Kh.; Fridland, S. V.

ORG: Kázan' Chemicotechnological Institute im. S. N. Kirov (Kazanskiy khimikotekhnologicheskiy institut)

TITLE: Reaction of certain chlorides of pentavalent phosphorus with divinyl ether

SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 436_442

TOPIC TAGS: ether, phosphorus chlorido, intermolecular complex, chemical decomposition, chemical reaction, reaction mechanism

ABSTRACT: The reaction of phosphorus pentachloride, ethyltetrachlorophosphorus, and phenyltetrachlorophosphorus with divinyl either was investigated. A complex was formed, which was decomposed with sulfur dioxide or acetic acid. The dichloride of beta-(alpha-chloroethoxy) vinylphosphinic acid and the dichloride of gamma-chlorobutadienephosphinic acid were isolated in substantial emounts from the reaction mass; the dichloride of beta-chlorovinylphosphinic acid and the dichloride of O-vinylphosphoric acid were isolated in smaller amounts. The possibility of the formation of a cyclic transition complex was hypothesized, and various variations of its stabilization were proposed. Orig. art. has: 2 tables. [JPRS]

SUEM DATE: 14Apr65 / ORIG REF: 005 / OTH REF: 001

UDC: 547.361.2.37:546.185.131 SUB CODE: 07 / Card 1/145

CIA-RDP86-00513R001757120013-4" **APPROVED FOR RELEASE: 03/14/2001**

5.3630 AUTHORS:

Tsivunin, V. S., Kamay, Gil'm

80006 s/020/60/131/05/036/069 B011/B117

On the Esters of Ethyl-\$-chloro-vinyl Phosphinic Acid

Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 5, pp 1113-1116 (USSR) TITLE: PERIODICAL:

TEXT: In contradiction to earlier statements (Ref 1), the authors came to the conclusion that from the chloride of ethyl vinyl phosphinic acid, the chloride of ethyl- α,β -dibromo ethyl phosphinic acid results by bromination. It is a product with low stability, and splits off HBr already during the removal of light fractions in vacuo and at 50° . In this way, the chloride of ethyl- β -bromo-vinyl phosphinic acid results (see scheme). The authors provide no answer to the question as to whether structure (I) or (II) is correct. They prefer to the question as to whether structure (I) structure (I) as being more likely. In this case, the halogen atom is bound to the β -carbon atom, since in this case both steric and thermodynamical factors would secure a high stability of the molecule. By a careful study of the chlorination of the chloride of ethyl vinyl phosphinic acid, it was found that in contradiction to facts stated above the chlorination product (chloride of ethyl- α , β -dichloro-ethyl phosphinic acid) was shown to be a stable product which could be distilled and separated in vacuo without decomposition. Nevertheless, the tendency to split off HCl is manifested by a high, nearly quantitative

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80006

On the Esters of Ethyl- β -chloro-vinyl Phosphinic Acid

,S/020/60/131/05/036/069 B011/B117

yield of the chloride of ethyl- β -chloro-vinyl phosphinic acid, if the chloride of ethyl- α , β -dichloro-ethyl phosphinic acid is catalytically dehydrochlorinated over a mixture of BaCO₃ and active carbon at 330-350°. Esters of the ethyl- β -

chloro-vinyl phosphinic acid were synthetized by the authors by the usual method. The chlorination of the mentioned acid was more difficult, as was expected. The yield of the chloride of ethyl- α , β , β -trichloro-ethyl phosphinic acid was 22%. The constants of the products obtained are given in table 1. Furthermore, the polymerization of methyl, ethyl and butyl esters of the ethyl- β -chloro-vinyl and of the ethyl ester of the ethyl- β -bromo-vinyl phosphinic acid was studied by the authors at 100-150° and in presence of 2% benzoyl peroxide. After ten days, no increase in viscosity was found. The reason for the polymerization being rendered more difficult has to be attributed, in the opinion of the authors, partly to the additional screening of the double bond by the halogen atom. In contrast to this, the polymerization rate of allyl alcohol of phosphorus-containing acids is increased by the introduction of electronegative groups. The differences became evident when 2% benzoyl peroxide, the dinitrile of 2-azo-bis-isobutyric acid (Paraphor), or diazoamino benzene were used. The allyl ester of ethyl- β -chloro-ethyl phosphinic acid became waxy already at 40° within 30 minutes, while the

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80006

On the Esters of Ethyl- β -chloro-vinyl Phosphinic Acid S/020/60/131/05/036/069 B011/B117

allyl ester of ethyl-vinyl phosphinic acid reached this state only after having been kept at 80° for 1 h. The results obtained with diazoamino benzene were contradictory, and this reaction is under further study. V. A. Kukhtin is mentioned. There are 1 table and 5 references, 3 of which are Soviet.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova

(Kazan' Institute of Chemical Technology imeni S. M. Kirov)

PRESENTED: November 9, 1959, by A. Ye. Arbuzov, Academician

SUBMITTED: November 4, 1959

Card 3/3

TSIVUNIN, V.S.; GIL'M KAMAY; SULTANOVA, D.B.

Reaction between ethyltetrachlorophosphine and vinyl ethers.

Zhur.ob.khim. 33 no.7:2149-2153 J1 '63. (MIRA 16:3)

1. Kazanskiy khimikd-tekhnologicheskiy institut imeni Kirova.

(Phosphine) (Vinyl ether)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

TSIVUNIN, V.S.; GIL'M KAMAY; FRIDLAND, S.V.

Some derivatives of β -chloroethoxyvinylphosphinic acid. Zhur.ob.khim. 33 no.7:2146-2149 J1 '63. (MIRA 16:8)

(Phosphinic acid)

EWT(m)/EWP(j) 36490-66 UR/0079/65/035/010/1815/1817 SOURCE CODE: ACC NR: AP6027081 Tsivunin, V. S.; Gil'm Kamay; Khisamutdinova, R. Sh. AUTHOR: ORG: none TITLE: Synthesis of thiooxides of diethyl(diphenyl)-alpha-(alkoxy)ethyl-phosphines, alpha-(alkoxy)vinylphosphines, and alpha-(vinyloxy)ethyl-phosphines SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1815-1817 TOPIC TAGS: chemical synthesis, organic phosphorus compound, chemical decomposition, hydrogen sulfide, chlorination, distillation, chemical bonding, bromination, hydrolysis Study of complexing between secondary chlorophosphines and ~-chloro ethers, the authors investigated the decomposition of the corresponding complexes with hydrogen sulfide. The overall process is represented as follows: $R_{1}PCI + CH_{2}X - CHCI - OR' \longrightarrow R_{2}P - CH - CH_{2}X \xrightarrow{+11.5} R_{2}P \xrightarrow{CH - CH_{2}X} + 2HCI,$ $CI - CH_{2}X \xrightarrow{+11.5} R_{2}P \xrightarrow{CH - CH_{2}X} + 2HCI,$ $CI - CH_{2}X \xrightarrow{+11.5} R_{2}P \xrightarrow{CH - CH_{2}X} + 2HCI,$ $CI - CH_{2}X \xrightarrow{+11.5} R_{2}P \xrightarrow{CH - CH_{2}X} + 2HCI,$ X=H Or Cl. R=C,H, Or C,H,, R'=C,H, As in the case of oxides, after decomposition of the complex of diethyl (diphenyl)-x-butoxyohloroethyldichlorophosphine, thermal dehydrochlorination occurs during distillation: UDC: 546.185:541.49+546.221 00 75 Card 1/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120013-4"

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d1	stillation	ermal dehydrod of the production enylohlorophos rogen sulfide	phlorination of following	n was observed g decomposition	B-chloroethy	of lex 1	
	(C _e l	H _B) _B PCI ++CH ₃ CHCI	-0CH ₂ CH ₂ Cl -	-> 4(C ₆ H ₆)21 - CH-CH ₃	+H,51		
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ACC NR. AP6027081	f a double bond was confirmed by a qualitative	
bromination re hydrolyzed rea	action. Diethyl-~butoxyvinylphosphine thiooxide dily to form diethylacetylphosphine thiooxide:	
	S. S O $(C_2H_8)_2P - C = CH_2 + H_2O \longrightarrow (C_2H_8)_2P - C - CH_2 + C_4H_8OH$ OC_4H_8	-
[JPRS: 36,328]		
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Guarante for cont	e material and equipment to inuous production. Sakh. pro	om. 32 no. 6:11-12 Je '58. (MIRA 11:7)
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